



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 11, 2013

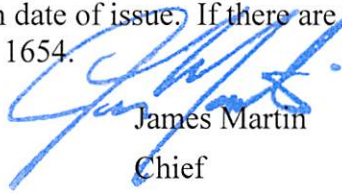
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2103448, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 154061 BAKER 3
Farm Name: COASTAL LUMBER COMPANY
API Well Number: 47-2103448
Permit Type: Plugging
Date Issued: 12/11/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

CK 16891
\$100⁰⁰

2103448P

Date: 10-31-13
Operator's Well
Well No. 154061 Baker #3
API Well No.: 47 021 - 03448

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil Gas X Liquid Injection Waste Disposal:
If Gas, Production X Or Underground storage Deep Shallow X
- 5) Elevation: 1149 Watershed: Schoolhouse Run of Heaters Fork
Location: Glenville Gilmer 03 County: Gilmer 21 Quadrangle: Gilmer 7.5' 365
District:
- 6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330
- 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330
- 8) Oil & Gas Bryan Harris
Name: P.O. Box 157
Address: Volga, WV 26238
- 9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

- 10) Work Order: The work order for the manner of plugging this well is as follows:

See Attachment for details and procedures.

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Office of Oil and Gas

DEC 05 2013

WV Department of
Environmental Protection

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Date 12-4-13

PLUGGING PROGNOSIS -Weston

Barker # 3 (154061)

GILMER, COUNTY, WEST VIRGINIA
 API # 47-021-03448
 Burnsville Quad

ELEV: 1149'
 TO 1321

BY: Craig Duckworth
 DATE: 9/13/13

CURRENT STATUS:

10" csg @ 250'
 8 5/8" csg @ 719'
 2 3/8" tbg @ 1295' (packer)

TD @ 1321'

Fresh Water @ None reported **Salt Water @** None reported
1st Salt Sand @ 1295' **Coal @** None reported
Gas shows @ 1295' (Salt Sand)
Oil Shows @ None reported
Stimulation: Well produced natural (1,750,000)

1. Notify State Inspector, **Bryan Harris 304-553-6087**, 24 hrs. Prior to commencing operations.
2. Attempt to pull 2 3/8" & packer (1295'). If unable to pull 2 3/8" cut at top of packer @ 1295' and pull 2 3/8"
3. TIH w/ tbg @ 1295'; Set 100' C1A Cement Plug @ 1295' to 1195' (gas show @ 1295' Salt Sand)
4. TOO H w/ tbg @ 1195'; gel hole @ 1195' to 769'.
5. TOO H w/ tbg, Free Point 8 5/8", cut 8 5/8" @ free point, TOO H w/ 8 5/8" csg
6. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 5/8" cut. Do not omit any plugs
7. TIH w/ tbg @ 769'; Set 100' C1A Cement Plug @ 769' to 669' (8 5/8" csg @ 719')
8. TOO H w/ tbg @ 8 5/8" 669'; gel hole @ 669' to 300'
9. TOO H w/ tbg @ 300'; Set 300' C1A Cement Plug @ 300' to 0' (10" csg @ 250')
10. Top off as needed
11. Set Monument to WV-DEP Specifications
12. Reclaim Location & Road to WV-DEP Specifications

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2103448 P

OG-10
Rev. - 9-71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Gilmar 7.5
Permit No. 47-021-3448

Rotary _____ Oil _____
Cable XX Gas XX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Ferrell L. Prior
Address 717 Union Trust Bldg.
Farm Parkersburg, W. V. Acres 42
Location (waters) Little Kanawha River
Well No. one (1) Elev. 880
District Glenville County Gilmer
The surface of tract is owned in fee by Barker H's.
Stouts Mills, W.V.
Address _____
Mineral rights are owned by same
Address _____
Drilling Commenced March 1, 1979
Drilling Completed April 10, 1979
Initial or flow 1,750,000 cu. ft. 0 bbls.
Final production 1,580,000 cu. ft. per day 0 bbls.
Well open 4 hrs. before test 400 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond. 15"	22	22	
13-10"	250	250	
9 5/8			
8 5/8	719	719	
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

2 inch set
on packer
at 1295 feet.

Well treatment details:

Attach copy of cementing record.

Well produced natural

Coal was encountered at None Feet _____ Inches _____
Fresh water None Feet _____ Salt Water _____ Feet _____
Producing Sand Salt Sand Depth 1295 feet to 1321 feet

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
soil			0	6		
sand			6	20		
slate			20	60		
sand			60	115		
red rock			115	130		
slate			130	140		
sand			140	162		
red rock			162	260		
sand			260	270		
red rock			270	300		
slate			300	350		
slate & shale			350	360		
red rock			360	390		
sand			390	405		
red rock			405	445		
slate & shale			445	515		
red rock			515	530		
slate			530	540		
sand			540	570		
slate			570	679		
sand			679	710		
slate & shale			710	800		
sand			800	855		

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611-3448

(over)

* Indicates Electric Log tops in the remarks section.

GIL-3448

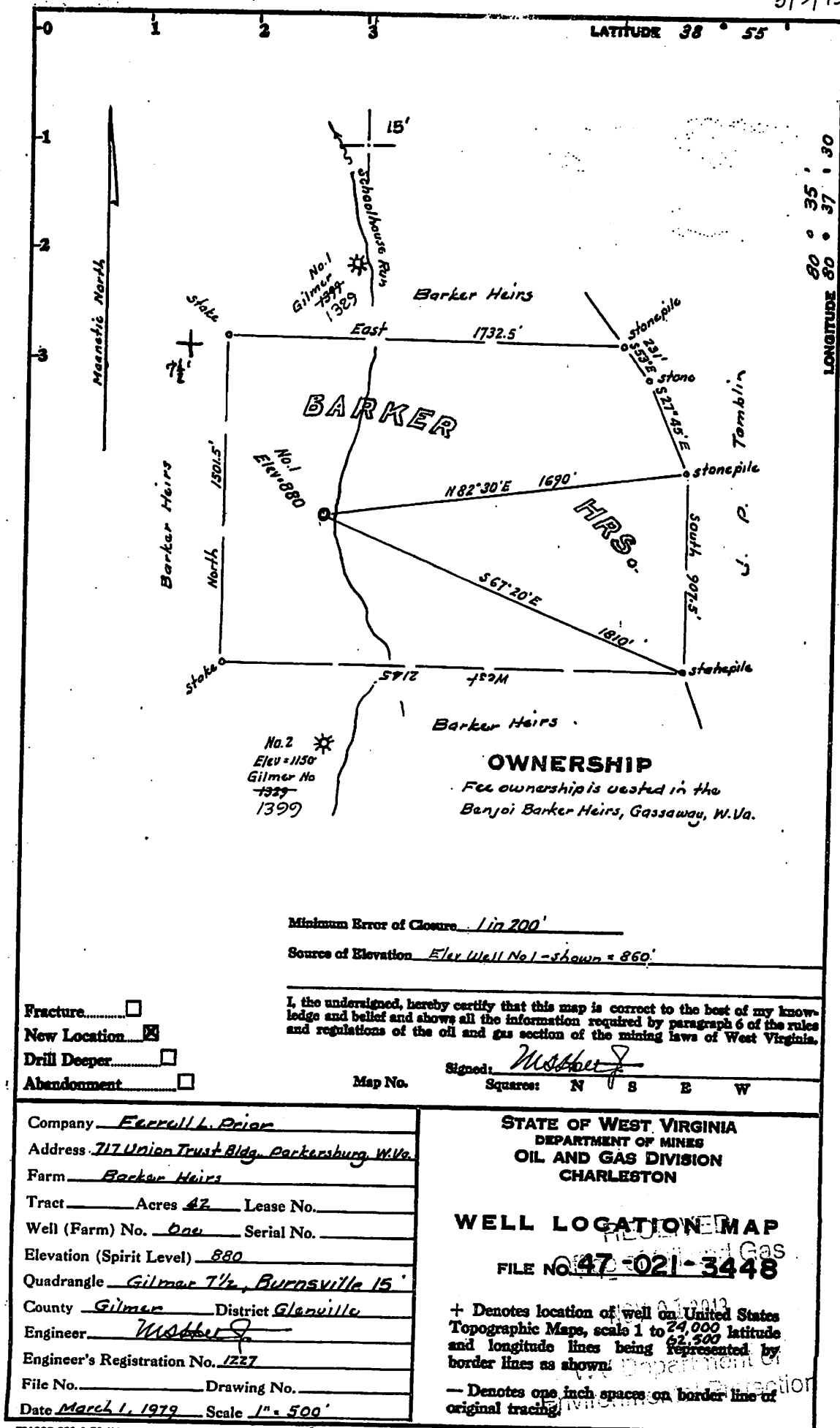
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	* Remarks
	slate		855	860		
	sand		860	940		
	slate		940	1035		
	sand		1035	1085		
	slate & shale		1085	1140		
	sand		1140	1155		
	slate		1155	1255		
	sand		1255	1275		
	slate		1275	1295		
	sand		1295	1321		
	TOTAL	DEPTH	1321		1,580,000	Natural

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Office of Oil and Gas

Date 4/12 '77APPROVED [Signature] 2013By [Signature]
U.S. Department of
Environmental Protection

210 3448 P 3/9/1979



WW-4-A
Revised 6/07

1) Date: 10-31-13
2) Operator's Well Number
154061 Baker #3
3) API Well No.: 47 021 - 03448
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:
(a) Name Coastal Lumber Company ✓
Address Attn: Ed Kraynok
P.O. Box 709
Buckhannon, WV 26301
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Bryan Harris ✓
Address P.O. Box 157
Volga, WV 26238
Telephone 304-533-6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration ✓
Name Coastal Lumber Company
Attn: Ed Kraynok
Address P.O. Box 709
Buckhannon, WV 26301
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator:



By:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

Address:

Telephone:

EQT Production Company

Victoria J. Roark

Permitting Supervisor

PO Box 280

Bridgeport, WV 26330

(304) 848-0076

Subscribed and sworn before me this 31

day of OCTOBER, 2013

My Commission Expires: 6/27/2015

Notary Public

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: _____
Watershed: Schoolhouse Run of Heaters Fork Quadrangle: Gilmer 7.5'
Elevation: 1149 County: Gilmer District: Gilmer *Glenville*

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes___ No X
Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:
X Land Application
____ Underground Injection - UIC Permit Number _____
____ Reuse (at API Number) _____
____ Offsite Disposal Permit #. _____
____ Other: Explain _____

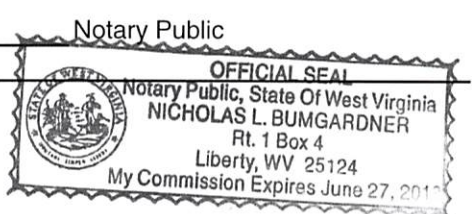
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____
Additives to be used? _____

Will closed loop system be used? _____
Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____
Landfill or offsite name/permit number? _____

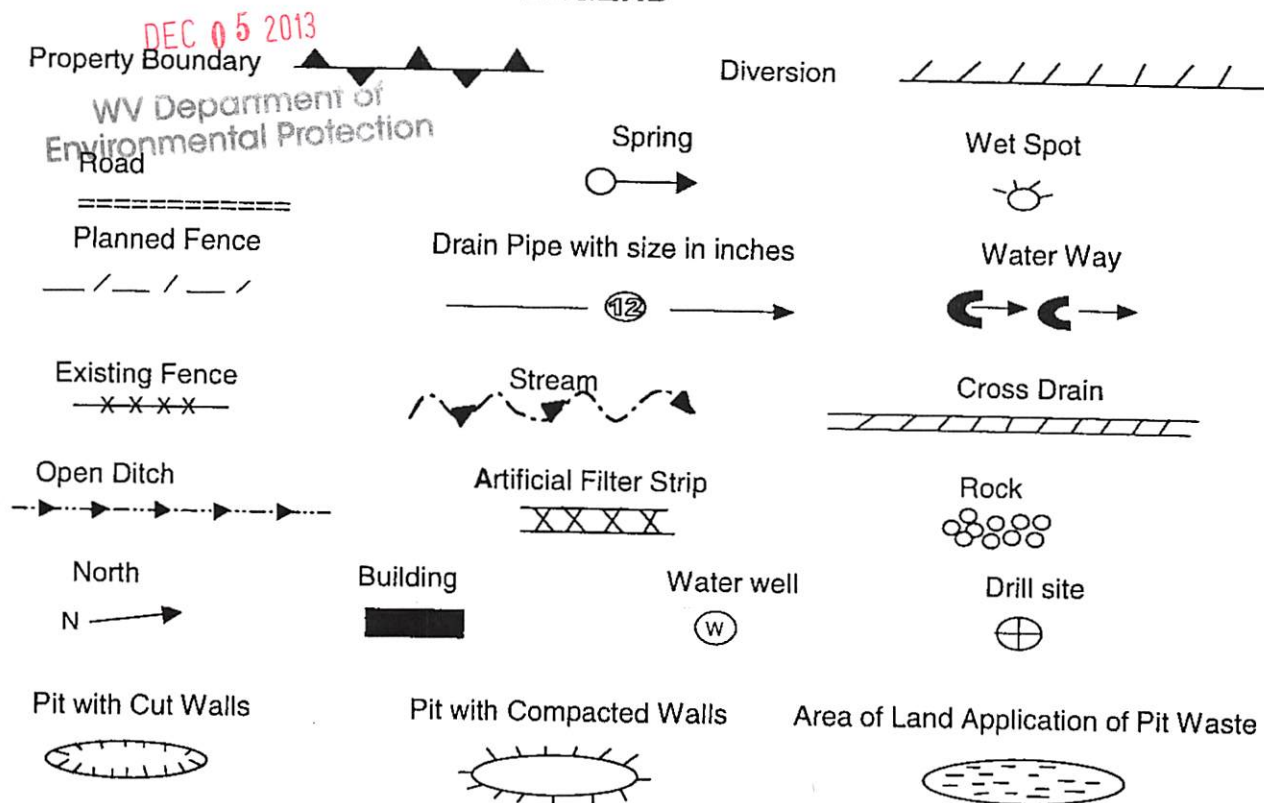
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria Roark*
Company Official (Typed or Printed) Victoria Roark
Company Official Title Permitting Supervisor-WV
Subscribed and sworn before me this 31 day of OCTOBER, 2013

My Commission Expires 6/27/2018



LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I

Area II

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Bryan Hani

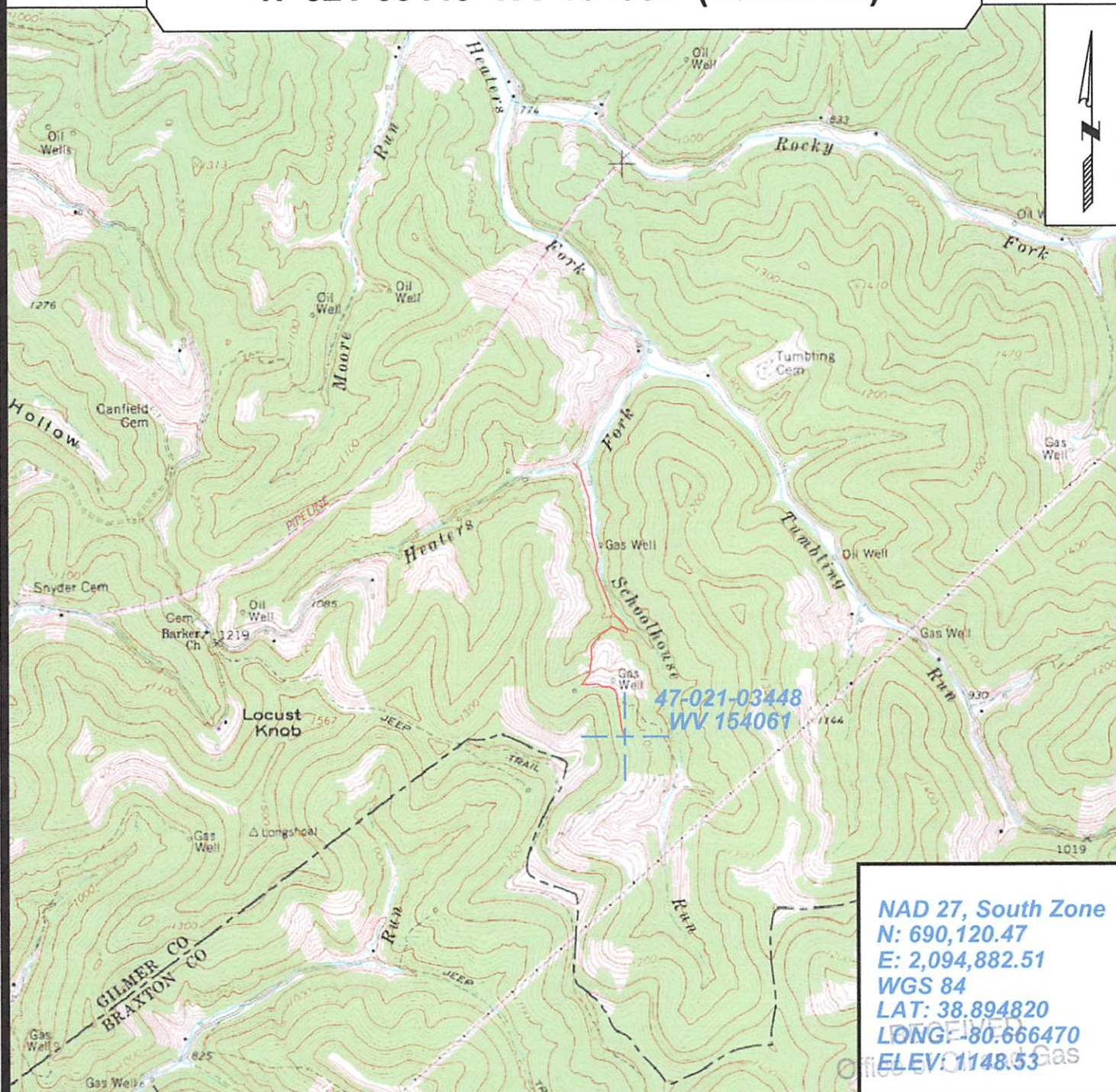
Comments: _____

Title: Oil & Gas Inspector Date: 12-4-13
Field Reviewed? X Yes No

2103448 P

Topo Quad: Gilmer 7.5'Scale: 1" = 2000'County: GilmerDate: October 17, 2013District: GlenvilleProject No: 25-19-00-07**47-021-03448 WV 154061 (Barker #3)**

Topo



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
P.O. BOX 438
BIRCH RIVER, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

NOV 01 2013

EQT Production Company

115 Professional Place
P.O. Box 280
Bridgeport, WV 26330

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-021-03448 WELL NO.: WV 154061 (Barker #3)

FARM NAME: Barker

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Glenville

QUADRANGLE: Gilmer 7.5'

SURFACE OWNER: Coastal Lumber Company

ROYALTY OWNER: Elaine Arbogast, et al.

UTM GPS NORTHING: 4305158

UTM GPS EASTING: 528924 GPS ELEVATION: 350 m (1149 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.

2. Accuracy to Datum – 3.05 meters

3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

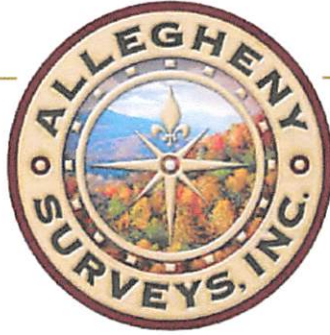
Date

Title

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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY INC.

LEASE NAME AND WELL No. Barker #3 WV 154061 (47-021-03448) .

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 154061.

BIRCH RIVER OFFICE

P.O. Box 438 • 237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE

212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE

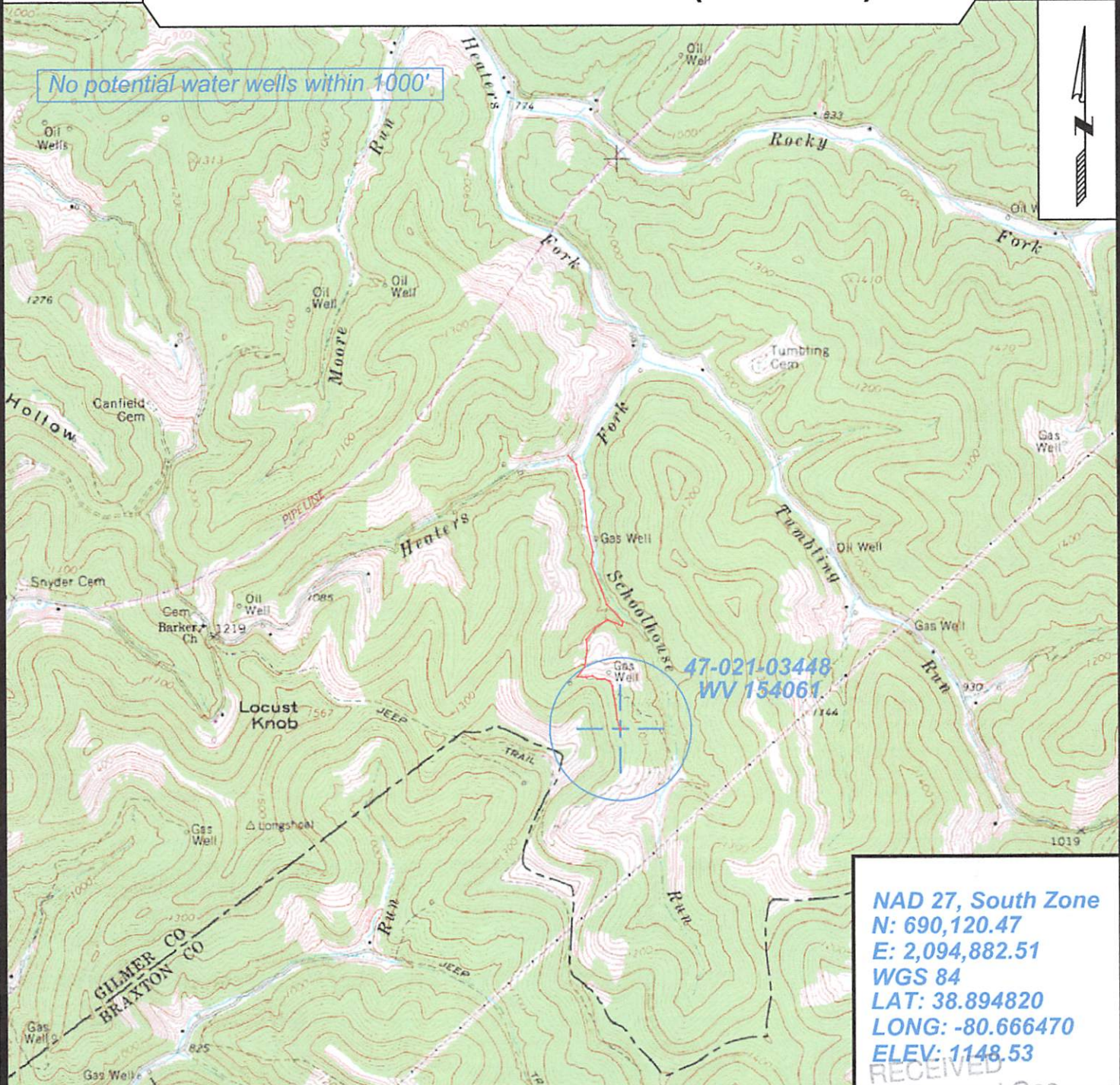
P.O. Box 108 • 4416 Childress Road
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

Topo Quad: Gilmer 7.5'Scale: 1" = 2000'County: GilmerDate: October 17, 2013District: GlenvilleProject No: 25-19-00-07

Water

47-021-03448 WV 154061 (Barker #3)

No potential water wells within 1000'



NAD 27, South Zone
 N: 690,120.47
 E: 2,094,882.51
 WGS 84
 LAT: 38.894820
 LONG: -80.666470
 ELEV: 1148.53



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